

Title (en)
Control method

Title (de)
Steuerungsverfahren

Title (fr)
Méthode de commande

Publication
EP 0905719 A3 20000419 (EN)

Application
EP 98307375 A 19980911

Priority
GB 9720003 A 19970920

Abstract (en)
[origin: EP0905719A2] A method of controlling the operation of an electromagnetic actuator is disclosed, the method comprising the steps of energizing the actuator using a low voltage source to generate a low magnitude actuator force, and applying a second, higher voltage to the actuator to generate a higher magnitude actuator force. <IMAGE>

IPC 1-7
H01F 7/18

IPC 8 full level
F02M 51/00 (2006.01); **F02D 41/20** (2006.01); **F02M 47/02** (2006.01); **F02M 51/06** (2006.01); **F02M 57/02** (2006.01); **F02M 59/36** (2006.01); **F16K 31/06** (2006.01); **G05D 3/10** (2006.01); **H01F 7/18** (2006.01)

CPC (source: EP US)
F02D 41/20 (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 57/02** (2013.01 - EP US); **F02M 59/366** (2013.01 - EP US); **H01F 7/18** (2013.01 - EP US)

Citation (search report)
• [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 498 (M - 1325) 15 October 1992 (1992-10-15)
• [A] PATENT ABSTRACTS OF JAPAN vol. 015, no. 427 (M - 1174) 30 October 1991 (1991-10-30)

Cited by
EP1098087A1; WO2004074674A1; EP1503073A1; EP2854144A1; GB2330947B; EP1310668A3; EP1055814A3; EP1065368A3; US6732948B1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0905719 A2 19990331; **EP 0905719 A3 20000419**; **EP 0905719 B1 20030702**; DE 69815975 D1 20030807; DE 69815975 T2 20040513; GB 9720003 D0 19971119; JP H11153246 A 19990608; US 6457457 B1 20021001

DOCDB simple family (application)
EP 98307375 A 19980911; DE 69815975 T 19980911; GB 9720003 A 19970920; JP 26669898 A 19980921; US 15438698 A 19980916